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lines, drawn from either extremity of the hyp. to the most distant corner of the square upon the opposite side. Find also the area of the curve.

218. (By Request)—Required the separate rates of dividend of two insolvent estates connected actually as follows:

John Doe's Estate. Direct liabilities $33,425.61, also endorsements for Richard Roe $34,949.16, less primary dividend to be paid from Roe's estate. Net proceeds to be divided $12,395.76.

Richard Roe's Estate. Direct liabilities $46,212.00, also endorsements for John Doe $9,500.00, less primary divinend to be paid from Doe's estate. Net proceeds to be divided $9,493.25, augmented by dividend on $4,796.65 accouat dne from John Doe's estate.

219. By Prof. Kershner. — What is the locus generated by the vertex of a right angle, including sides given, sliding between the branches of a given parabola?

220. By Artemas Martin.—Through a given point in the surface of a circle, a chord is drawn at random. If another chord be drawn at right angles to the first, what is the probability that they will intersect?

Query. By Geo. M. Day, Lockport, N. Y.—It is stated by Prof. Jevons in his "Principles of Science" that Prof. Clifford has found a function which approaches infinity as the variable approaches a certain limit; yet at the limit the function is finite. What is the function?

PUBLICATIONS RECEIVED.

The Observatory, (May and June Nos.) A Monthly Review of Astronomy. Edited by W. H. M. Christie, M. A. Taylor and Francis, London, England.

The Electric Constitution of Our Solar System. By Jacob Ennis. 8vo. 19 pp. Philadelphia. 1878.

ERRATA.

On page 93, line 10, the brace, which includes the numerator and denominator of the last term, should only include the numerator; and on same page, lines 10 and 11 from bottom should read as on page 92, lines 2 and 3 from bottom.

On page 102, line 3 from bottom, after $=$, insert $1-ap$.

" " 112, " 16, for when, read where.

" " " " 17, for $=$, read being.

" " " last line, for four roots, read, four real roots.

" " 116, for e, f, g, on wood-cut, read E, F, G.